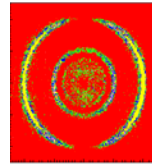


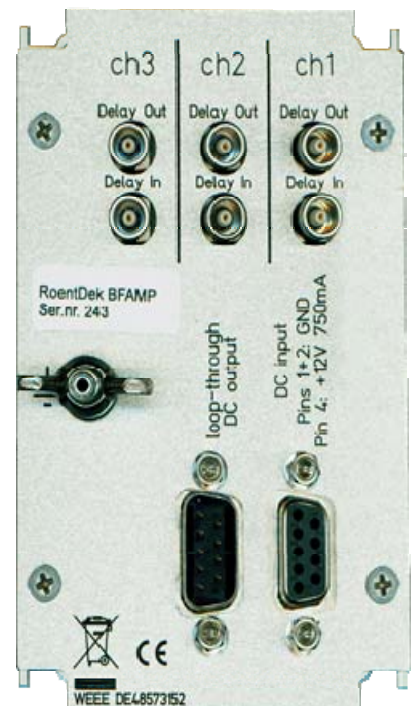
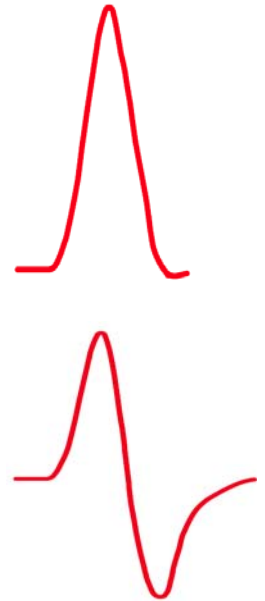
The RoentDek BFAMP bipolar output amplifiers



The **RoentDek BFAMP1** and **BFAMP3** bipolar output amplifier modules are advancements of the **FAMP** fast signal amplifiers for high frequency pulse signals (see [LINK](#)).

The **BFAMP3** module (with 3 channels) is designed as a standard 3HU case (weight 450 g, size W61mm/L122mm/H128mm, without power adapter). It comes with a mains power adapter for 100-250VDC. Power consumption is 0.4A at + 12V. Several modules can be daisy-chained via cables. The default settings are 150x amplification, 200 MHz bandwidth and 50 Ohm impedance. The **BFAMP1** unit has a width of 51 mm and 0.15A at + 12V power consumption, weight 250 g (without power adapter).

The **BFAMP** have a bipolar signal output optimized for certain digital read-out modules such as fast ADCs (e.g. [RoentDek fADC4](#)) and specifically for the **RoentDek cTDC** models. Each amplifier features re-shaping of amplified signals towards a bipolar signal trace (see signal sketches on the right). Forming the bipolar output shape from an (unipolar) input signal is accomplished by summing up the inverted and non-inverted amplified signal after introducing a specific delay between the two components. The delay is determined by the length of an external cable set on the rear panel. If no delay cable is set, the **BFAMP** circuit operates like a standard **FAMP**.



BFAMP1 and BFAMP3 modules (left), rear panel of bFAMP3 (above) with DC power input via 9-pin socket (the BFAMP1 has no loop-through DC output).